PATENT COOPERATION TREATY

From the Japan Patent Office

(INTERNATIONAL SEARCHING AUTHORITY)

PCT

To: Agent of Applicant Hajime Takashima

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WRITTEN OPINION OF THE INTERNATIONAL

SEARCHING AUTHORITY (PCT Rule 43-2.1)

		Date of mailing (day/month/year	
Applicant's or agent's file reference	09620	For Further see paragn	Action aph 2 below
International application No. PCT/JP2004/002464	International filing d		Priority date (day/month/year) 04.04.2003
International Patent Classification (IPC	Int. Cl. ⁷ C07	/D215/14	
Applicant KURARAY CO., I	TD.		. 1

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1.	This report contains it	ndications relating to the following iten	18:				
	⊠ Box No. I	Basis of the opinion					
	□ Box No. II	Priority					
	🗆 Box No. III	Non-establishment of opinion with re	gard to novelty, inventive step and industrial	applicability			
	Box No. IV	Lack of unity of invention	•	,			
	⊠ Box No. V	No. V Reasoned statement under Rule 43-2.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited					
	Box No. VII	Certain defects in the international application					
	□ Box No. VIII						
2.	Preliminary Examining this one to be the IPEA	g Authority (IPEA) except that this doe	e, this written opinion is the first drawn up by s not apply where the Applicant chooses an A International Bureau under Rule 66.1 bis(b) the	uthority other than			
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.						
3.	For further details, see	notes to Form PCT/ISA/220.					
Esta	blished this written op	inion 21.05.2004					
Nan	ne and mailing address		Authorized officer	4P 9638			
		t Office (ISA/JP)	Examiner				
4-3, Kasumigaseki 3-chome Kayoko Enomoto				t o			
	Chiyoda-ku,	Tokyo 100-8915 Japan	Telephone No. 03-3581-1101 exten	sion 3492			

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL

SEARCHING AUTHORITY

Intern. application No.PCT/JP2004/002464

I. Basis of the	opinion				
	wise indicated under this item, this written opinion was drawn up based on the language in which onal application was filed.				
	opinion is in the following languagewhich is:				
The langua (b)).	age of a translation furnished for the purposes of the international search (under Rüle 12.3 and 23.1				
_	to any nucleotide and/or amino acid sequence disclosed in the international application and necessaled invention, this opinion has been established on the basis of	тy			
a. type of materia	al				
7.	a sequence listing				
	□ table(s) related to the sequence listing				
b. format of mate	arial				
o. Iormat or mate	on paper				
	in electronic form				
- A' C E'1' 16	B*_B.				
c. time of filing/f	curnishing ———————————————————————————————————				
	filed together with the international application in computer readable form	-			
	furnished subsequently to this Authority for the purposes of search				
3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4. Additional co	omments:				
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Intern. application No.PCT/JP2004/002464

. Statement			
Novelty (N)	Claims	1	YES
	Claims		NO
Inventive Step (IS)	Claims	1	YES
	Claims		NO
Industrial Applicability (IA)	Claims	1	YES
	Claims		NO

2. Citations and Explanations

References

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- 1. JP 2001-316369 A (KURARAY CO., LTD.) 2001.11.13
- 2. DE 3905908 A (BAYER AG) 1990.09.06
- 3. Tetrahedron Letters, 1990, Vol.31, No.3, p. 349-52
- 4. Journal of Organic Chemistry, 1978, Vol.43, No.19, p.3788-9

Explanations

Claim 1

The invention described in claim 1 has novelty and an inventive step over the references cited in the International Search Report.

References 1-4 do not describe reacting a quinolinecarbaldehyde compound represented by the formula (II) and an imine compound represented by the formula (III), as described in claim 1 of the present application, and such reaction is not obvious to even those of ordinary skill in the art from the description of references 1-4.